

Bayou Dupont (BA-39)
NOAA Science Advisory Board Site Visit
October 14, 2010

PPL12 Approved Project – Task Force Approved in 2003
Final Plans and Specifications Completed in 2007
Construction Funding Approved in January 2008
Issued Construction Notice to Proceed in February 2009
Construction Started in April 2009
Construction Completed in May 2010
Vegetative Plantings in June 2010

LESS THAN 6 MONTHS POST CONSTRUCTION

Acreage – 493 acres (created and nourished)
Original Fully Funded Cost – \$28.8M
Design Cost - \$2.7M, Construction Contract Award - \$21M
Remaining Funds to be returned to program less S&A Costs and Outyear Costs

NOAA Increment – Approximately 87 acres (created and nourished)
\$4M funded through Stimulus Grant and CWPPRA Contingency Funds

Ecological Aspects

Target Marsh Elevation/Date – 1.3 ft @ TY10
Flooding Period – Inundated approximately 25% of the time
Construction Elevation – 2.0 ft +/- 0.3 ft
Expectation to initially settle 1 ft over first 2 yrs
Target elevation selected to yield desirable marsh elevations for most of 20-yr project life

First CWPPRA project utilizing renewable river sediment to create marsh
New sediment into the system, sediment substrate not the norm, interior borrow

Vegetation – Combination of Natural Colonization and Project Plantings
Primarily planted project perimeter (26,000 plants) with follow-up planting as necessary
Plantings included Smooth Cordgrass and Seashore Paspalum
Goal to ideally achieve *Spartina patens* marsh

Combination containment dike degradation and gapping included to promote hydrologic connectivity and tidal exchange

Project specific monitoring included – 3 CRMS Monitoring Stations

Construction Details

Hydraulically dredged and placed approximately 2.3 million cubic yards of material
Approximately 5 miles of sediment delivery pipe used from Mississippi River Borrow
Borrow area between River Miles 63 & 65 ranges from -40 ft to -60 ft elevation
Jack and Bore under Railroad and Highway left in place as future infrastructure
Sediment was spread by dozers with a minimum 2 ft of fill needed to operate dozers
Sediment created “mud wave” as being place
Existing Remnant Marsh “popped up” during construction